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CAB INTERNATIONAL BUREAU OF PLANT BREEDING AND GENETICS

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Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

Agricultural Economics
Animal Breeding & Genetics
Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide.

Scientific Services

CABI's Scientific Services consist of four Institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

CAB INTERNATIONAL INFORMATION SERVICES
PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production
Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production
Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
Nutrition Abstracts & Reviews, Series A-Human & Experimental.

Biotechnology/Biodeterioration
AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their choice, either as computer printout or on floppy discs suitable for most microcomputers. Delivery by airmail.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984-86; the second volume contains the 1987-89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Outlook on Agriculture, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts.*

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LANGUAGE ABBREVIATIONS

An initial capital denotes the language of the paper; an initial small letter, the language of the summary.

Af	Afrikaans
Al	Albanian
Ar	Arabic
Az	Azerbaijani
Be	Byelorussian (White Russian)
Bg	Bulgarian
Ch	Chinese
Cs	Czech
Da	Danish
De	German
Ee	Estonian
En	English
Eo	Esperanto
Es	Spanish
Fi	Finnish
Fr	French
Gr	Greek
He	Hebrew
Hu	Hungarian
Ia	Interlingua
In	Indonesian
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It	Italian
Ja	Japanese
Ko	Korean
La	Latin
Li	Lithuanian
Lv	Latvian
Ma	Macedonian
My	Malay & Bahasa Malaysia
Nl	Dutch
No	Norwegian
Pe	Persian
Pl	Polish
Pt	Portuguese
Ro	Romanian
Ru	Russian
Sh	Serbo-Croat (either Latin or Cyrillic script)
Sk	Slovak
Sn	Slovene
Sv	Swedish
Ta	Tajik
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LIST OF SERIALS ABSTRACTED

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Many other serials were scanned during 1989 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses. See a separate page of this Index for details.

A. E. Research, Department of Agricultural Economics, Cornell University
Abstracts of Communicated Papers [Horticulture Abstracts], Korean Society for Horticultural Science
Abstracts on Cassava
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Acta Biochimica et Biophysica Hungarica
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Acta Botanica Fennica
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Agrotecnia de Cuba
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Animal Production
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Austrobaileya
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Beiträge zur Tabakforschung International
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Berichte des Ôhara Instituts für Landwirtschaftliche Biologie, Okayama Universität
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Bragantia
British Cactus and Succulent Journal
Buletin Penelitian Hortikultura
Buletin Perkebunan
Buletinul de Protecţia Plantelor
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Circular, Agricultural Experiment Station, University of Florida
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Comunicado Técnico, Empresa Goiana de Pesquisa Agropecuária, EMBRAPA, Brazil
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Dohányipar
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Doklady Biological Sciences
Doklady Botanical Sciences
Doklady Vsesoyuznoĭ Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaĭstvennykh Nauk Imeni V. I. Lenina
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Economic Botany
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Journal of Phytopathology
Ekologiya
EMBO Journal
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European Journal of Cell Biology
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Experimental and Applied Acarology
Experimental Cell Research
Experimental Genetics
Extension Bulletin, ASPAC Food and Fertilizer Technology Center for the Asian and Pacific Region, Taiwan
Extension Bulletin, Cooperative Extension, College of Agriculture, Washington State University
FABIS Newsletter, Faba Bean Information Service, ICARDA
Fagopyrum
FAO Plant Production and Protection Paper
Farm Science Journal
Farming in South Africa
Farming Japan
FEBS Letters
Feddes Repertorium
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FFTC/ASPAC Book Series
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Haryana Journal of Horticultural Sciences
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Himachal Journal of Agricultural Research
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Holly Society Journal

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HortScience
Ibaraki-ken Nogyo Shikenjo Kenkyu Hokoku
IBPGR Report
ICARDA Technical Manual, International Center for Agricultural Research in the Dry Areas, Syria
IDESIA
IIHR News
Immunology Today
In Vitro Cellular & Developmental Biology
Indian Agriculturist
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Informations Techniques, Centre Technique Interprofessionel des Oléagineux Métropolitains, France
Informatore Agrario
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Informe de Investigacion, Division de Ciencias Agropecuarias y Maritimas, Instituto Tecnologico y de Estudios Superiores de Monterrey, Mexico
Informe Técnico, Estación Experimental Regional Agropecuaria Pergamino, Argentina
Infos, Centre Technique Interprofessionnel des Fruits et Légumes, France
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Intellectual Property in Business
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International Agrophysics
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Investigación Agraria, Producción y Protección Vegetales
Iowa State Journal of Research
Iranian Journal of Agricultural Sciences
Iranian Journal of Plant Pathology
IRRI Research Paper Series, International Rice Research Institute
ISCI Journal, Indian Society for Cotton Improvement
ISI Atlas of Science: Animal and Plant Sciences
Israel Journal of Botany
ITEA (Información Técnica Economica Agraria)
Izvestiya Akademii Nauk Moldavskoĭ SSR, Biologicheskikh i Khimicheskikh Nauk
Izvestiya Akademii Nauk SSSR, Biologicheskaya
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JARQ (Japan Agricultural Research Quarterly)
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Nauchno-Tekhnicheskiĭ Byulleten' Vsesoyuznogo Ordena Lenina i Ordena Druzhby Narodov Nauchno-Issledovatel'skogo Instituta Rastenievodstva Imeni N. I. Vavilova
Nauchno-Tekhnicheskiĭ Byulleten', Sibirskiĭ Nauchno-Issledovatel'skiĭ Institut Kormov
Nauchno-Tekhnicheskiĭ Byulleten', Sibirskiĭ Nauchno-Issledovatel'skiĭ Institut Sel'skogo Khozyaĭstva
Nauchno-Tekhnicheskiĭ Byulleten', Vsesoyuznyĭ Nauchno-Issledovatel'skiĭ Institut Soi
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Palawija News
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Parasitica
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Pasturas Tropicales
PCARRD Monitor, Philippine Council for Agriculture, Forestry and Natural Resources Research and Development
Peanut Science
Pemberitaan, Penelitian Tanaman Industri, Indonesia
Pennsylvania Fruit News
Pertanika
Pesquisa Agropecuária Brasileira
Pesquisa em Andamento, Centro Nacional de Pesquisa de Coco, EMBRAPA, Brazil

Pesquisa em Andamento, Empresa Capixaba de Pesquisa Agropecuária, EMCAPA, Brazil
Pesquisa em Andamento, Empresa de Pesquisa Agropecuária do Estato do Rio de Janeiro, PESAGRO-RIO
Pesquisa em Andamento, Empresa de Pesquisa, Assistência Técnica e Extensão Rural de Mato Grosso do Sul, EMPAER, Brazil
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Phytochemistry
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Phyton, Argentina
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Phytophylactica
Phytoprotection
PKV Research Journal
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Plant Foods for Human Nutrition
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Plant, Cell & Environment
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Proceedings of the Oklahoma Academy of Science
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Proceedings, American Peanut Research and Education Society
Proceedings, Annual Conference, Agronomy Society of New Zealand
Proceedings, Soil and Crop Science Society of Florida
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Professional Horticulture
Progrès Agricole et Viticole
Progress in Botany
Progressive Horticulture
Prophyta
Protoplasma
Przegląd Hodowlany
Publicación Técnica, Instituto Nacional de Technología Agropecuaria, Estación Experimental Agropecuaria Anguil
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Publication, Atlantic Corn Hybrid Evaluation Committee, Canada
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Pyrethrum Post
Quarterly Bulletin of the North American Lily Society
Queensland Agricultural Journal
Queensland Journal of Agricultural and Animal Sciences
Quick Bibliography Series, US Department of Agriculture
Rachis Barley and Wheat Newsletter
Radovi Poljoprivrednog Fakulteta Univerziteta u Sarajevu
Rapport, Institutionen för Trädgårdsvetenskap, Sveriges Lantbruksuniversitet
Rasteniev"dni Nauki
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Report of the Taiwan Sugar Research Institute
Report of the Tohoku Branch, Crop Science Society of Japan
Report Series, Arkansas Agricultural Experiment Station
Report, Cucurbit Genetics Cooperative, USA
Report, FAO
Research and Development Reporter
Research Bulletin of the Aichi-ken Agricultural Research Center, Japan
Research Bulletin of the Faculty of Agriculture, Gifu University
Research Bulletin of the Hokkaido National Agricultural Experiment Station
Research Bulletin of the University Farm, Hokkaido University
Research Bulletin, Central Potato Research Institute, India
Research Bulletin, Georgia Agricultural Experiment Stations
Research Bulletin, Tainan District Agricultural Improvement Station, Taiwan
Research Circular, Ohio Agricultural Research and Development Center
Research Monitor, Department of Agriculture, Thailand
Research Report (Breeding Section), Japan Tobacco Inc.
Research Report of the Institute of Forest Genetics, Korea Republic
Research Report, Georgia Agricultural Experiment Stations
Research Report, Mississippi Agricultural and Forestry Experiment Station
Research Reports of the Rural Development Administration, Biotechnology, Korea Republic
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Research Reports of the Rural Development Administration, Horticulture, Korea Republic
Research Reports of the Rural Development Administration, Rice, Korea Republic
Research Reports of the Rural Development Administration, Upland & Industrial Crops, Korea Republic
Research Series, Arkansas Agricultural Experiment Station
Research Series, College of Tropical Agriculture and Human Resources, University of Hawaii
Revista Brasileira de Genética
Revista Cafetalera
Revista Ceres
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomía, Universidad de Buenos Aires
Revista de la Facultad de Agronomía, Universidad Nacional de La Plata
Revista del Jardín Botánico Nacional, Universidad de la Habana
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- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

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CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

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The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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